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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,001	01/26/2004	Carl Churchill	BIODOT.028C1	6765
20,,,0	7590 04/24/2007 RTENS OLSON & BEAR	EXAMINER		
2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614			ALEXANDER, LYLE	
			ART UNIT	PAPER NUMBER
, , , , , , , , , , , , , , , , , , ,	,		1743	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MONTHS		04/24/2007	ELECTRONIC	

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 04/24/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

	Application No.	Applicant(s)				
Office Action Comment	10/765,001	CHURCHILL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lyle A. Alexander	1743				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status .						
1) Responsive to communication(s) filed on 29 Ja	nuary 2007.					
a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.						
☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	,					
Attachment(s)						
I) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
Information Disclosure Statement(s) (PTO/SB/08)       5)						
Paper No(s)/Mail Date <u>See Continuation Sheet.</u> 6) Other:						

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date  $:\frac{12/28/06}{6}$  6/2/06;2/14/06, 1930 5.

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-0 are rejected under 35 U.S.C. 102(b,) as being clearly anticipated by Tisone(524', 522', 960', 554', 728'), Deeg et al.(5,338,688), Hayes et al.(USP 5,658,802) or Brown et al.(USP 5,807,522).

The cited prior art teaches methods and apparatus for high speed dispensing of microfluidic reagents comprising a dispensing means, a displacement pump, means to control the dispensing and the associated means to track the position of the dispensed reagent. All of the Tisone references teach dispensing reagent in quantities of less than 1 nanoliter up to 100 nanoliters. Deeg et al. teach in tables I and II dispensing reagents in the quantities of 0.1,2,20 and 80 nanoliters. Hayes et al. teach dispensing reagents

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in the quantities of 10 picoliters to 1 nanoliters. Brown et al. teach dispensing reagents in the quantities of .01 nanoliters to 100 nanoliters.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Deeg et al.(5,338,688).

Deeg et al. teach methods and apparatus for high speed dispensing of microfluidic reagents comprising a dispensing means, a displacement pump, means to control the dispensing and the associated means to track the position of the dispensed reagent. In tables I and II Deeg et al. teach reagents in the amounts of 0.1, 2, 20 and 80 nanoliters, which meets all of the claimed concentrations.

Claims 1-10 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Tisone(295').

Tisone teaches methods and apparatus for high speed dispensing of microfluidic reagents comprising a dispensing means, a displacement pump, means to control the dispensing and the associated means to track the position of the dispensed reagent.

The reagents are dispensed in quantities of 1-4,0.54 and 42 nanoliters.

Claims 1-10 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Tisone(200/0001657).

Tisone teaches methods and apparatus for high speed dispensing of microfluidic reagents comprising a dispensing means, a displacement pump, means to control the dispensing and the associated means to track the position of the dispensed reagent.

The reagents are dispensed in quantities of 1,4,0.42-2.1 and 30-40 nanoliters.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lyle A. Alexander whose telephone number is 571-272-1254. The examiner can normally be reached on Monday, Wednesday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lyle A Alexander Primary Examiner Art Unit 1743

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